

# CRYSTAL FILTERS

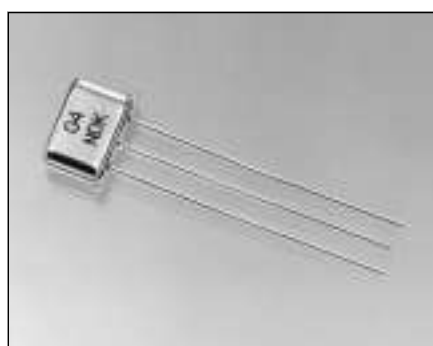
## 45MHz SERIES MCF

### ■ Features

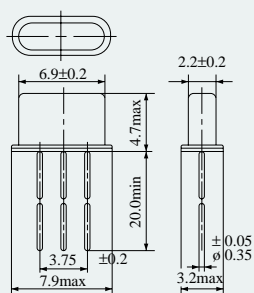
- Compactness and light weight
- Excellent design against shock/vibration
- Low impedance

### ■ 45MHz Fundamental

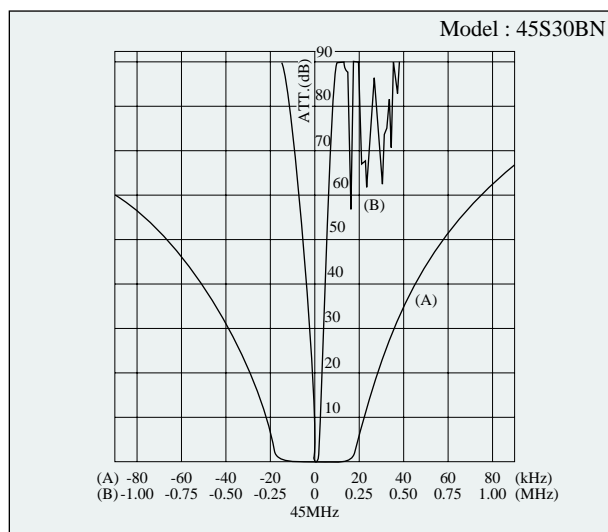
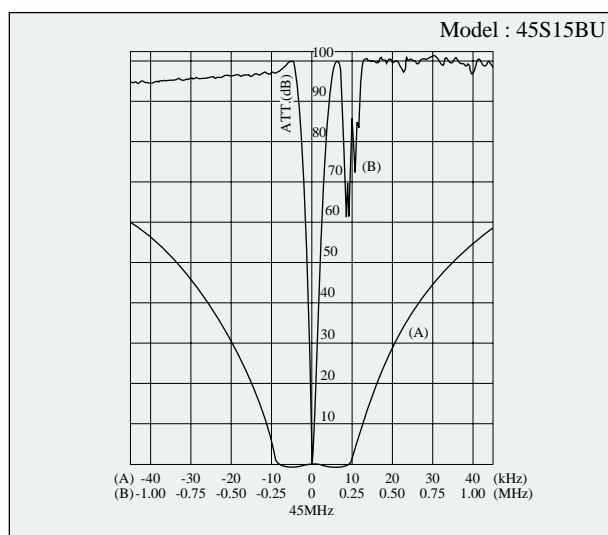
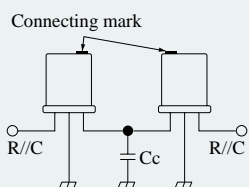
Model	Nominal Frequency (MHz)	Pole	Pass Bandwidth		Attenuation Bandwidth		Ripple (dB)	Insertion Loss (dB)	Guaranteed Attenuation (fo-910kHz) (dB)	Terminating Impedance ( $\Omega$ // pF)	Operating Temp. Range ( $^{\circ}$ C)	Type
			(dB)	(kHz)	(dB)	(kHz)						
45S15BU	45	4	3	$\pm 7.5$	25	$\pm 22$	1.0	4.0	80	650/3 $C_c=9\text{pF}$	-20~+70	D-361-B
45S20BJ	45	4	3	$\pm 10$	25	$\pm 25$	1.0	3.0	80	800/2 $C_c=6.5\text{pF}$	-20~+70	D-361-B
45S30AJ	45	2	3	$\pm 15$	15	$\pm 50$	1.0	2.0	40	1200/1.5	-20~+70	D-361-A
45S30BN	45	4	3	$\pm 15$	35	$\pm 50$	1.0	4.0	80	800/1.8 $C_c=6.5\text{pF}$	-20~+70	D-361-B
45S34AD	45	2	3	$\pm 17$	15	$\pm 60$	1.0	2.5	65	870//0.2	-30~+80	D-361-A



D-361-A~B (mm)



D-361-B means a pair of D-361-A. When D-361-B is used, please use a coupling capacitance.  $C_c$  includes stray capacitance.



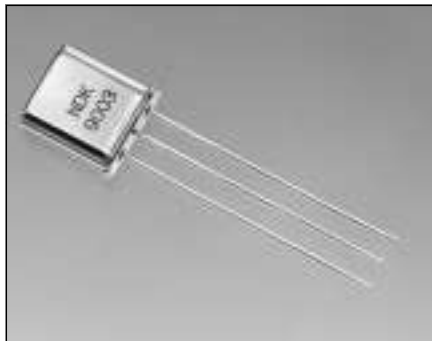
## 45MHz SERIES MCF

### ■ Features

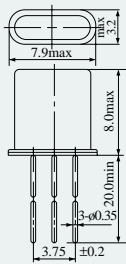
- Compactness and light weight
- Stable temperature characteristics

### ■ 45MHz Overtone

Model	Nominal Frequency (MHz)	Pole	Pass Band-width		Attenuation Bandwidth		Ripple (dB)	Insertion Loss (dB)	Guaranteed Attenuation (fo-910kHz) (dB)	Terminating Impedance (kΩ// pF)	Operating Temp. Range (°C)	Type
			(dB)	(kHz)	(dB)	(kHz)						
45N7.5A	45	2	3	±3.75	18	±18	0.5	2.0	40	3//0.5	-20~+70	D-360-A
45N7.5BA	45	4	3	±3.75	40	±15	1.0	4.0	80	3//0.5 C <sub>C</sub> =0pF	-20~+70	D-360-B
45N15A	45	2	3	±7.5	15	±22	0.5	1.5	40	2.5//1.2	-20~+70	D-360-A
45N15B	45	4	3	±7.5	25	±22	1.0	3.0	80	3//1 C <sub>C</sub> =-1.2pF	-20~+70	D-360-B
45N20A	45	2	3	±10	15	±28	0.5	1.5	40	3//1	-30~+60	D-360-A
45N20B	45	4	3	±10	25	±25	1.0	3.0	75	3//1.3 C <sub>C</sub> =-1.5pF	-30~+60	D-360-B
45N30A	45	2	3	±15	15	±50	1.0	2.0	30	8.5//1	-20~+70	D-360-A
45N30BE	45	4	6	±15	30	±50	1.0	3.0	67	6//1.2 C <sub>C</sub> =-2pF	-20~+70	D-360-B



D-360-A~B (mm)



D-360-B means a pair of D-360-A. When D-360-B is used, please use a coupling capacitance .

